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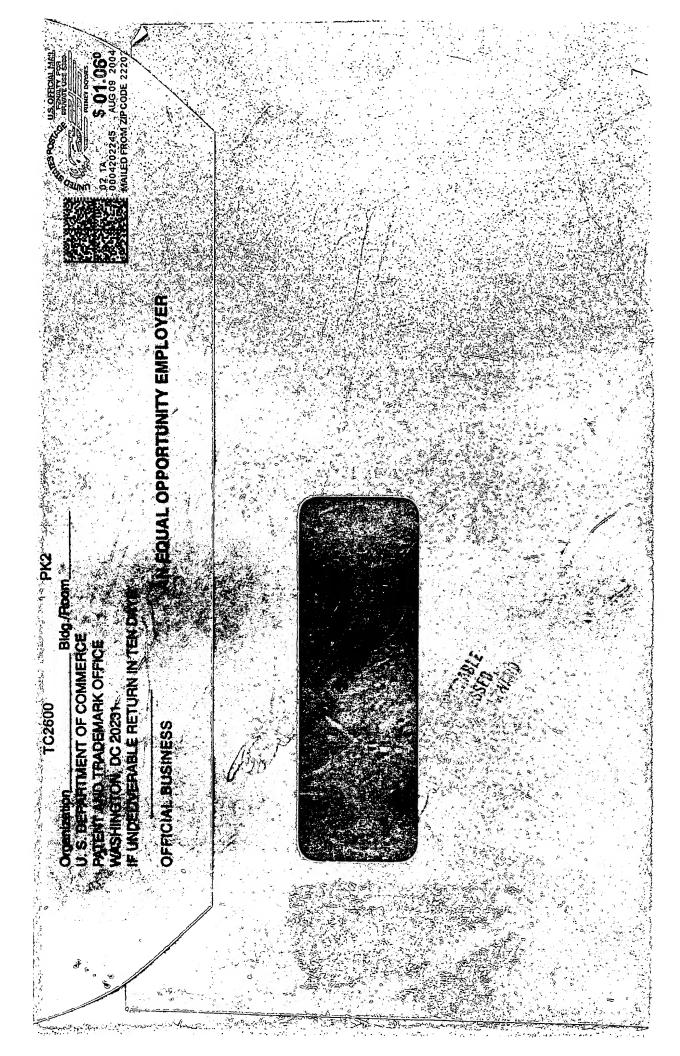
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/865,235	05/25/2001	Hendrik Arend Visser	US018073	2625	
7	590 08/09/2004		EXAMINER		
Philips Electronics			PHU, SA	PHU, SANH D	
North America Corporation 580 White Plains Road			ART UNIT	PAPER NUMBER	
Tarrytown, NY 10591			2682	<	
			DATE MAILED: 08/09/2004	D	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Technology Center 2600



		Application No.	Applicant(s)				
Office Action Summary		09/865,235	VISSER, HENDRIK AREND				
		Examiner	Art Unit				
		Sanh D Phu	2682				
The MAILING DATE of this co Period for Reply	ommunication app	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PER THE MAILING DATE OF THIS COI - Extensions of time may be available under the pafter SIX (6) MONTHS from the mailing date of of lf the period for reply specified above is less that if NO period for reply is specified above, the mailing to reply within the set or extended period Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1.	MMUNICATION. provisions of 37 CFR 1.13 this communication. n thirty (30) days, a reply ximum statutory period w d for reply will, by statute, months after the mailing	86(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) day a rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communication. IED (35 U.S.C. § 133).				
Status							
1) Responsive to communication	1) Responsive to communication(s) filed on 01 June 2004.						
2a)⊠ This action is FINAL .	This action is FINAL . 2b) ☐ This action is non-final.						
· · ·	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the	e practice under <i>E</i>	x parte Quayle, 1935 C.D. 11, 4	453 O.G. 213.				
Disposition of Claims							
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.							
4a) Of the above claim(s)	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed	Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-18</u> is/are rejected.							
	Claim(s) is/are objected to.						
8) Claim(s) are subject to	restriction and/or	r election requirement.					
Application Papers							
9)☐ The specification is objected to	o by the Examine	r. •					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
_		ion is required if the drawing(s) is o	·				
11) The oath or declaration is object	ected to by the Ex	aminer. Note the attached Offic	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a a) All b) Some * c) Nor	_	priority under 35 U.S.C. § 119(a)-(d) or (f).				
1.☐ Certified copies of the		s have been received.					
<u> </u>	•	s have been received in Applica	ation No				
3. Copies of the certified	copies of the prior	ity documents have been receive	ved in this National Stage				
application from the Int							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)		4) Interview Summar	ry (PTO-413)				
2) Notice of Draftsperson's Patent Drawing R		Paper No(s)/Mail I	Date				
 Information Disclosure Statement(s) (PTO Paper No(s)/Mail Date 	-1449 or PTO/SB/08)	6) Other:	Patent Application (PTO-152)				
0.0							

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DETAILED ACTION

1. This Office Action is responsive to the amendment filed on 6/1/2004.

Claim Rejections ~ 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Minasi (5,789,995) in view of Itoh (6,341,216) previously cited.

Regarding to claim 1, 9, 11 and 15 see Fig. 1, col. 1, line to col. 2, line 12, Manasi discloses a transceiver for radio frequency signals, said transceiver comprising:

a transmit branch (TX, CR1, C1) that is coupled to an antenna feed point (col. 1, lines 23-51);

a receive branch (RX, CR2, C2, L1, C1) comprising a first network (L1, C1) with an output node and with an input node that is coupled to said antenna feed point, said first network being configured such that in a transmit mode of said transceiver said input node is switched as an open circuit by switching said output node as a short circuit (see col. 1, lines 42–51).

He does not disclose an output node switching being performed by an active switching component with a low break through voltage.

However, Itoh disclose an output node (33) switching being performed by an active switching component (34) (see Fig. 1).

At the time of the invention, it would have been obvious for one skilled in the art to integrate the active switch as taught by Itoh in order to control the input signal from antenna (see Fig. 1 of Itoh) so that it (34) switches efficiently between open circuit and short circuit mode. Therefore, it would have been obvious to combine Minasi with Itoh to obtain the invention as specified in the claim 1, 9, 11, and 15.

Regarding to claim 2, Minasi discloses that the transceiver wherein said first network comprises a capacitor (C1) that is coupled between said input

node and ground, an inductor (L1) that is coupled between said input node and said output node, and a first switch (CR1) that is coupled between said output node and said ground (see Fig. 1, col. 1, lines 10-22).

Regarding to claim 3, Minasi discloses that the transceiver wherein said first switch is MOS transistor (which is using FET transistor, see col. 1, lines 59-63).

Regarding to claim 4, 13 and 17, Minasi discloses that the apparatus wherein said receive branch comprises said first network (C1, L1) comprises a capacitor (C1) that is coupled between said input node and ground, an inductor (L1) that is coupled between said input node and said output node,

He does not disclose a low noise amplifier.

However, Itoh disclose a low noise amplifier (20) (see Fig. 1) that is coupled to output mode (see Fig. 1, col. 9. lines 11–19).

At the time of the invention, it would have been obvious for one skilled in the art to integrate the low noise amplifier as taught by Itoh in order to control signal to noise ratio of the receive branch so that the receiver operates

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efficiently and stability. Therefore, it would have been obvious to combine

Minasi with Itoh to obtain the invention as specified in the claim 4, 13 and 17.

Regarding to claim 5, Minasi discloses that the transceiver wherein said first network comprises a 1/4-Lamda transmission line that is coupled between said input node and said output node, and a second switch that is coupled between said output node and ground (see col. 1, lines 33-51).

Regarding to claim 6, Minasi discloses that the transceiver wherein said second switch is a Reed switch that is suitable to switch radio frequency signals (see col. 1, lines 10-51).

Regarding to claim 7, Minasi discloses that the transceiver wherein said transmit branch comprises a tank circuit, and a power transistor for providing a transmit power signal to said tank circuit when said transceiver is in said transmit mode, said tank circuit being directly connected to said antenna feed point, and said transceiver being configured to switch off said power transistor when said transceiver is in a receive mode (see col. 1, lines 23–67).

Regarding to claim 8, Minasi discloses that the transceiver wherein said transmit branch comprises a tank circuit, and a power transistor for providing a

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transmit power signal to said tank circuit when said transceiver is in said transmit mode, and a second switch that is coupled between said tank circuit and said antenna feed point, said transceiver being configured to open said second switch when said transceiver is in a receive mode (see col. 1, lines 23–67).

Regarding to claim 10, Minasi discloses that the transceiver wherein said first network means (C1, L1) comprises capacitive means (C1) and inductive means (L1), and first switch means (CR2) for coupling said output node to ground when said transceiver is in a transmit mode, thereby causing, through said capacitive means and said inductive means, said input node to become an open circuit (see col. 1, lines 42–51).

Regarding to claim 12, Minasi discloses that the radio frequency transceiver module wherein said first network means comprises capacitive means and inductive means, and first switch means for coupling said output node to ground when said radio frequency transceiver module is in a transmit mode, thereby causing, through said capacitive means and said inductive means, said input node to become an open circuit (see col. 1, lines 42–51).

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Regarding to claim 14, Minasi discloses that the radio frequency transceiver module wherein said first network means comprises 1/4-Lamda transmission line means, and second switch means for coupling said output node to ground when said radio frequency transceiver module is in a transmit mode, thereby causing, through 1/4-Lamda transmission line means, said input node to become an open Circuit (see col. 1, lines 33-51).

Regarding to claim 16, Minasi discloses that the apparatus wherein said first network comprises a capacitor (C1) that is coupled between said input node and ground, an inductor (L1) that is coupled between said input node and said output node, and a first switch (CR2) that is coupled between output node and said ground (see Fig. 1, col. 1, lines 10-22).

Regarding to claim 18, Minasi discloses that the apparatus wherein said first network comprises a 1/4-Lamda transmission line that is coupled between said input node and said output node, a second switch that is coupled between said output node and ground (see col. 1, lines 33-51).

Response to Arguments

3. Applicant's arguments with respect to claims 1, 9, 11, 15 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanh D Phu whose telephone number

is (703) 305-8635. The examiner can normally be reached on 8:00-16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 703-301-6739. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-8635.

Sanh D. Phu Examiner

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SP

LEE NGUYEN

PRIMARY EXAMINES